

Becoming EV Ready



Municipal Sustainability



- ▶ Greenest Region Compact supported by 131 local governments

- ▶ 49 sustainability goals

- ▶ Goals related to electrification

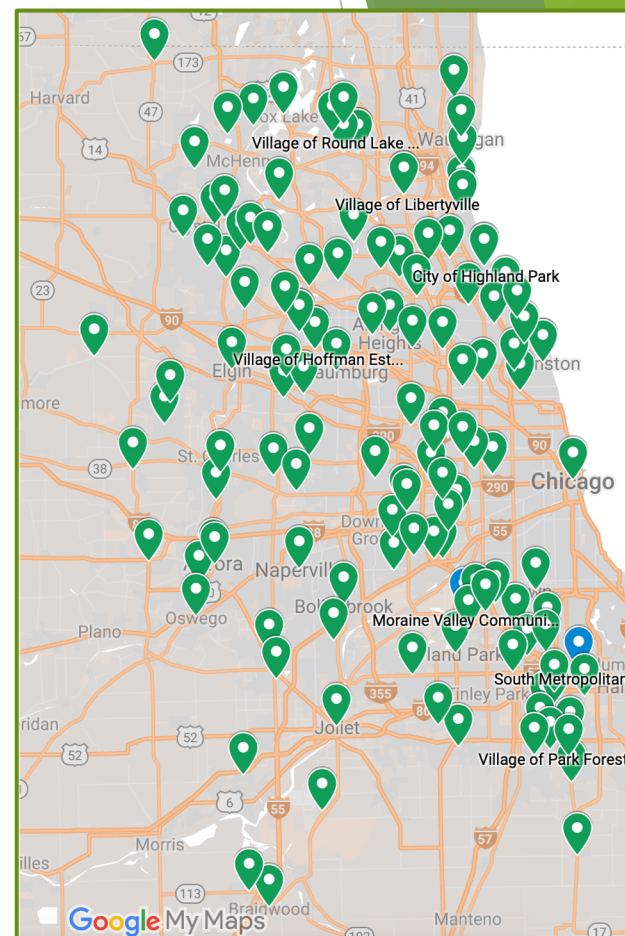


Operate a safe, clean and efficient fleet



Support efficient transportation that uses resources wisely

- ▶ Collaborate to support a network of alternate fueling infrastructure



Green Ways 2Go
www.greenways2go.com

Metropolitan
Mayors
Caucus


SolSmart Success

- ▶ Streamline solar codes
- ▶ Extensive checklist & point system
- ▶ Work collaboratively
- ↑ 5800% in rooftop solar in Schaumburg

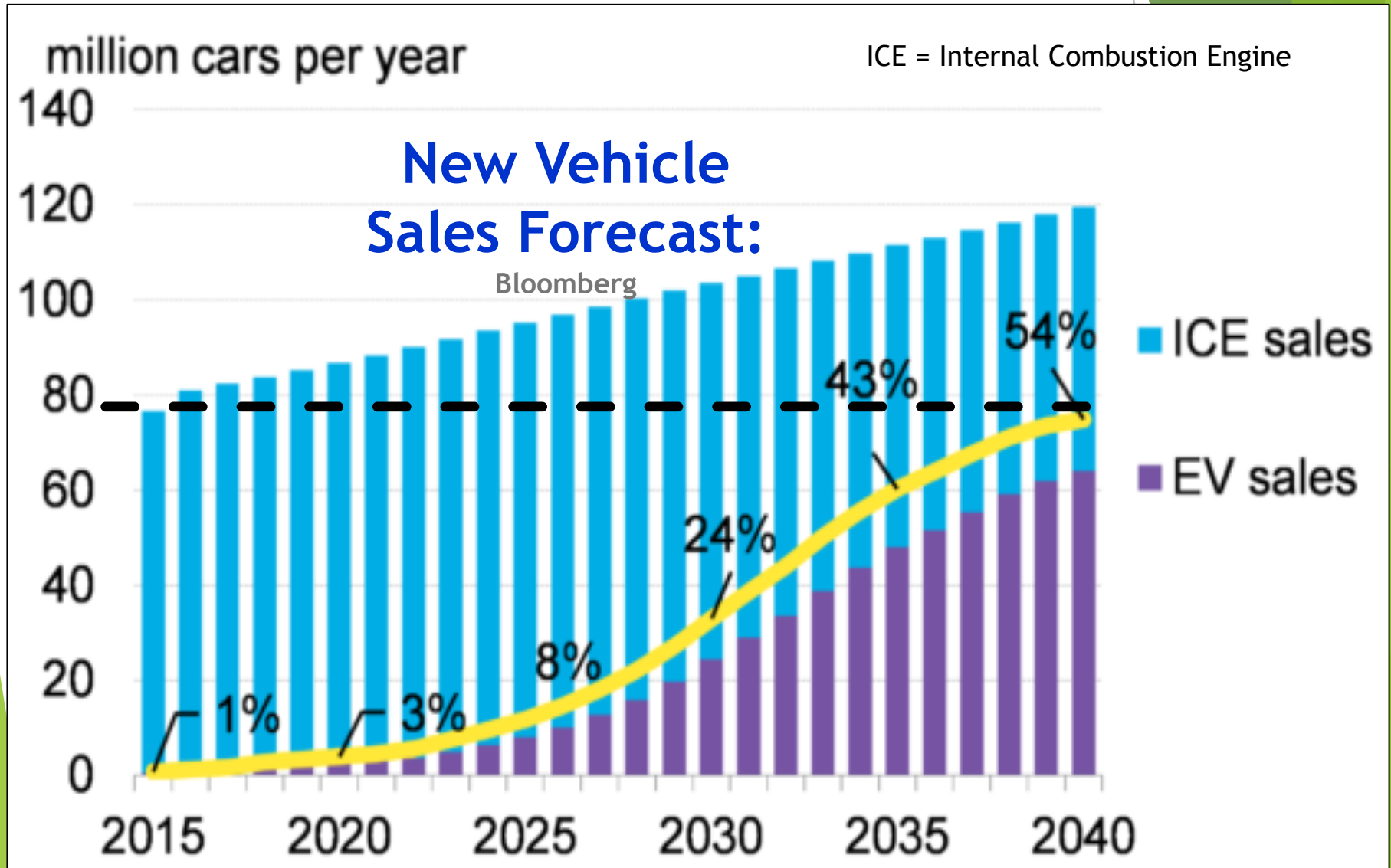
Illinois
#1



Permitting

Action	Points	We've done this!	Documentation
Create and make available an online checklist detailing the steps of your community's solar permitting process (Required).	Req'd	<input checked="" type="checkbox"/>	Share link:
Provide a streamlined permitting pathway for small PV systems with turn-around time of no more than 3 days (Required for Gold).	20 Req'd for Gold	<input type="checkbox"/>	Share link:
Distinguish between systems qualifying for streamlined or standard review.	5	<input checked="" type="checkbox"/>	Share link:
Require no more than one application form for a residential rooftop PV project.	5	<input type="checkbox"/>	Share link:
Review of solar permit fees for residential and commercial solar.	5	<input type="checkbox"/>	Share link:
 Earn additional points: Revise or demonstrate that permit fees reflect national best practices (e.g. \$400 or less for residential, and based on cost-recovery for commercial).	5	<input type="checkbox"/>	Share link:
Review permitting process for efficiency improvements and reduce processing time to 10 days or fewer.	10	<input type="checkbox"/>	Share link:
Adopt a standard solar permit form aligned with best practices (e.g. Solar ABCs).	10	<input type="checkbox"/>	Share link:
Train permitting staff on best practices for permitting solar PV and/or solar and storage systems.	10	<input checked="" type="checkbox"/>	Share link:
Train fire and safety staff on solar PV.	10	<input type="checkbox"/>	Share link:

Why Become EV Ready?



Becoming EV Ready Project



Listening Sessions



Checklist



Decision Guide



THANK YOU TO THE JOYCE FOUNDATION!



Green Ways 2Go
www.greenways2go.com

Listening Sessions



- ▶ Municipalities
 - ▶ Elected Officials
 - ▶ Planners
 - ▶ Building code officials
 - ▶ Fire safety
- ▶ EV Industry
 - ▶ EV dealers
 - ▶ Electrical contractors
 - ▶ Charging station vendors
- ▶ ComEd
- ▶ Downtown business association
- ▶ Environmental advocates



EV Readiness Checklist



Commit to EV Readiness
Zoning and Planning
Permitting
Inspection and Safety
Parking and Access
New Construction
EV Owner Rights
Municipal Fleets
Utility Engagement
Community Engagement
Market Development and Finance

Full checklist at: mayorscaucus.org/initiatives/environment/becoming-ev-ready/



Green Ways 2Go
www.greenways2go.com



EV Ready Checklist: Example

ZONING AND PLANNING

Clarify or establish new zoning rules to facilitate EVCS installation.

Define transportation electrification technologies (EVs, EVCSs) to be considered.

Review zoning requirements and remove restrictions that intentionally or unintentionally hinder EVCS installations.

Establish EVCS parking, signage, and wayfinding appearance rules.

Establish EVCS zoning siting criteria.

Establish zoning rules based on facility type, safety and risk.

Establish regulations for the commercial operation of EVCSs.

Explain rules for advertising on EVSE.

Clearly and concisely communicate EVCS zoning rules.



EV Ready Checklist: Example

PERMITTING

Develop clear permitting processes for EVCSs.

Streamline permitting processes while meeting applicable codes (e.g. building, electrical, product safety) and important health and safety requirements.

Advise applicants that Illinois statutes require installers to notify the utility about all EVCS projects.

Adopt a STANDARD EVCS permit process primarily for Level 2 non-residential, workplace and multiple-unit dwelling installations.

Distinguish and define permitting requirements for *multiple-unit dwelling* and *non-residential* EVCSs.

Adopt a SPECIAL EVCS permit process for Level 3/DC Fast Chargers, and large, complex Level 2 installations.

ComEd[®]

An Exelon Company

powering lives

Register Your Electric Vehicle

Do you already own or lease an electric vehicle? Register your vehicle with ComEd to help us assess the electric-load needs and improve the reliability of electric service in your community.

Residential



Business



Green Ways 2Go
www.greenways2go.com

 Metropolitan
Mayors
Caucus

EV Ready Checklist: Example

NEW CONSTRUCTION

Incentivize or require new construction to be EV CAPABLE or EV READY to reduce costs of future EVCS installation.

EV CAPABLE includes power supply, breakers and conduit near EV parking areas or spaces, terminated in outlets or junction boxes.

EV READY includes EV CAPABLE plus wiring to outlet or junction box and EVSE.

Establish requirements for making new single-family RESIDENTIAL units EV READY or EV CAPABLE.

Establish standard electrical amperage requirements for as-built electrical panels and EVCS circuits to make structure EV READY or EV CAPABLE.

Establish requirements for making new multiple-unit dwellings and commercial, workplace, and municipal facilities EV READY or EV CAPABLE.



EV Ready Checklist: Example

PARKING AND ACCESS

Establish parking policies to balance constituent needs and support growth in EV readiness.

Require safe cord management, such as retractable cords to accommodate all EVs and avoid trip hazards.

Establish parking enforcement policies and procedures.

Identify and promote EVCSSs.

Provide wayfinding signage to direct EV drivers to EVCSSs.

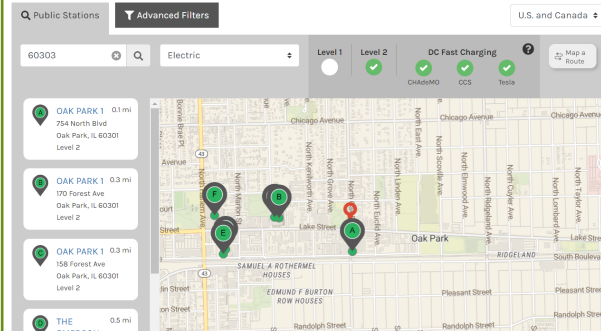
Recommend registration of public EVCSSs on websites such as the Alternative Fuels Data Center to help EV drivers find EVCSSs.

U.S. DEPARTMENT OF
ENERGY | Energy Efficiency &
Renewable Energy

Alternative Fuels Data Center

Electric Vehicle Charging Station Locations

Find electric vehicle charging stations in the United States and Canada. For Canadian stations in French, see [Natural Resources Canada](#).



Green Ways 2Go
www.greenways2go.com

Metropolitan
Mayors
Caucus



EV READINESS DECISION GUIDE FOR LOCAL GOVERNMENTS

JULY 24, 2020

*Prepared by
Green Ways 2Go and
Metropolitan Mayors Caucus*



Green Ways 2Go
www.greenways2go.com



EV Readiness Decision Guide: Support Local Government:

- Making purchase decisions
- Planning EV Charging Projects
- Measuring Success
- Looking Forward with Beneficial Electrification
- Connecting Regionally
- Electrifying Public Fleets



EV READINESS DECISION GUIDE

Electric Vehicle Connector Standards

In the interest of safety and to provide for a functional safe and ubiquitous system, various technical organizations have established regulatory and standards-based requirements related to the hardware, software, and the integration of all the technology.

EVs built in the US use the Society for Automotive Engineers (SAE) "J1772" connector (Figure 4) to charge with Level 1 and Level 2 chargers. All EVs have a connection receptacle to match a corded connector and cable, that plugs into the EVs connection point. The cable originates in the charging device, commonly called Electric Vehicle Supply Equipment or "EVSE".



<https://mayorscaucus.org/initiatives/environment/becoming-ev-ready/>



Green Ways 2Go
www.greenways2go.com

Metropolitan
Mayors
Caucus

Future EV Ready program



Support for checklist action items



Collaboration and Facilitation



Recognition



Regional planning

To be modeled on



Green Ways 2Go
www.greenways2go.com

Thank you!

Metropolitan Mayors Caucus

Edith Makra

emakra@mayorscaucus.org



Cheryl Scott

cscott@mayorscaucus.org



Green Ways 2Go

Tim Milburn

847-826-3314

tim.milburn@greenways2go.com



Full checklist at: mayorscaucus.org/initiatives/environment/becoming-ev-ready/



Green Ways 2Go
www.greenways2go.com



**Greenest
Region
Compact**
COLLABORATING FOR SUSTAINABLE COMMUNITIES

